

## Patent Abstracts of Japan

PUBLICATION NUMBER : 05154389  
 PUBLICATION DATE : 22-06-93

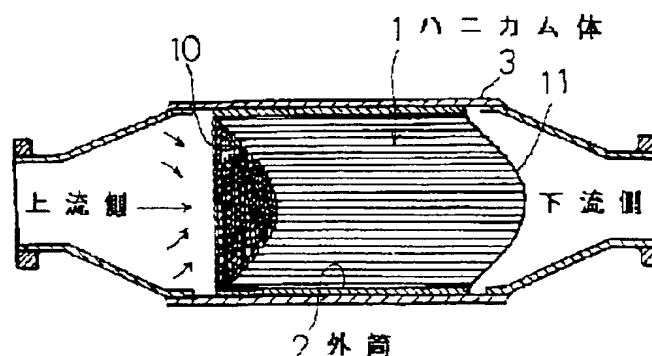
APPLICATION DATE : 09-12-91  
 APPLICATION NUMBER : 03324149

APPLICANT : TOYOTA MOTOR CORP;

INVENTOR : SANPEI KAZUHISA;

INT.CL. : B01J 35/04 B01D 53/36 B01J 35/04  
 F01N 3/24 F01N 3/28

TITLE : CATALYST STRUCTURE FOR  
 PURIFYING EXHAUST GAS



ABSTRACT : PURPOSE: To further improve purifying performance at low temperatures in starting time or the like by making one end face of a honeycomb body exposed on the end face of the exhaust gas inflow side of a metal honeycomb catalyst recessed at its central section most toward the exhaust gas outflow side.

CONSTITUTION: A honeycomb body 1 is held by an outer cylinder 2 of a metal carrier, and an active alumina layer is formed on the surface of a honeycomb body 1, on which platinum and rhodium are carried, and the whole of carrier is put into a catalyst converter 3. At that time, said honeycomb body 1 is formed into a conical recessed shape in which the central section of one end face 10 is recessed most toward the inner side in the axial direction, while the other end face 11 is formed into a projected shape of almost conical shape with its central section projecting most toward the outer side in the axial direction. Thus one end face 10 of the honeycomb body 1 is arranged facing the upstream side of an exhaust gas passage, and the other end face 11 is arranged facing the downstream side, and the exhaust gas is gathered in the central section of one end face 10, and the temperature of the central section is raised quickly to improve the purifying performance of the initial period of start.

COPYRIGHT: (C)1993,JPO&Japio